

Publications of Prof. Dr. Abdul Naeem (TI), NCE in Physical Chemistry

	Publications	Impact Factor
1.	Khan, Asif, Syed Tasleem Hussain, Abdul Naeem, Ayesha Sadiqa, Awais Ahmad, Muhammad Aamir Ali Shehzada, and Munirah D. Albaqami. "Next-generation calcium oxide nanoparticles: A breakthrough in energy storage and humidity sensing." <i>Results in Chemistry</i> (2025): 102073.	2.5
2.	Farooq, Muhammad, Fatima Zaid, Anita Ramli, Fouzia Perveen, Abdul Naeem, Ihtisham Wali Khan, Zahid Ali Ghazi, and Ata Ur Rehman. "Development of porous WO ₃ /SAPO-34 solid catalyst for the conversion of glycerol to fuel performance improving bio-additive (solketal)." <i>Arabian Journal for Science and Engineering</i> 50, no. 1 (2025): 93-105.	2.6
3.	R Ihsan, A Naeem, M Farooq, Tooba Saeed, M Noman, G Abid, T Malik, One-pot conversion of non-edible oil into sustainable biodiesel using novel bifunctional heterogeneous catalyst, <i>Renewable Energy</i> 238, (2025) 121939.	8.6
4.	MA Alotaibi, IU Din, AI Alharthi, Tooba Saeed, MS Shaharun, A Naeem, High dispersion by Cd incorporation leads to accelerate methanol synthesis rate in CO ₂ hydrogenation over Cu-Zn/SiO ₂ catalysts, <i>Heliyon</i> , 10 (2024), 23,	3.4
5.	Alotaibi, Mshari A., Tabassum Malik, A. Naeem, Amir Sada Khan, and Maizatul S. Shaharun. "Exploring the dynamic world of ternary deep eutectic solvents: Synthesis, characterization, and key properties unveiled." <i>Heliyon</i> 10, no. 22 (2024).	3.4
6.	Tabassum Malik, Abdul Naeem, Andrew Peter Abbott, Amir Sada Khan, Tooba Saeed, Ihtisham Wali Khan, "Ternary deep eutectic solvents for efficient denitrogenation of a model oil: thermodynamics, extraction efficiency, and recycling performance". <i>Chemical Papers</i> , 6 (2024), 12345,	2.20
7.	Tooba Saeed, Shahzaib Ahmad, Abdul Naeem, Bashir Ahmad, Murtaza Sayed, Shaista Afridi, Rida Ihsan, Ruqia NazirAn "Overview on Investigation of Metal and Covalent Organic Frameworks for Various Applications, <i>Journal of Molecular Structure</i> 1312 (2024) 138475,	4.0
8.	Abdul Naeem, Naila Masood, Tooba Saeed, Bashir Ahmad, Muhammad Farooq "Adsorptive Removal of Heavy Metal Ions from Model Aqueous Media Using Titanium Metal-Organic Framework and Its Polyvinyl." <i>Desalination and Water Treatment</i> , 137 (2024), 100228	1.0
9.	Momin, Saima, Tahira Mahmood, Abid Ullah, Abdul Naeem, and Afsar Khan. "Facile Synthesis of Cu-Zn Bimetallic MOF: Application as Superior Adsorbent for Effective Removal of Methylene Blue from Aqueous Solutions." <i>Arabian Journal for Science and Engineering</i> 49, no. 7 (2024): 9269-9290.	2.6

10.	Alotaibi, Mshari A., Abdul Naeem, Ihtisham Wali Khan, Muhammad Farooq, Israf Ud Din, and Maizat S. Saharun. "Optimization and cost analysis evaluation studies of the biodiesel production from waste cooking oil using Na–Si/Ce-500 heterogeneous catalyst." <i>Biomass and Bioenergy</i> 182 (2024): 107078.	5.8
11.	Saeed, Tooba, Abdul Naeem, Bashir Ahmad, Shahzaib Ahmad, Shaista Afridi, Farida Khan, Israf Ud Din, and Nazish Huma Khan. Covalent organic frameworks for CO ₂ adsorption: fundamentals, structural features and synthesis." <i>Journal of Porous Materials</i> 31, no. 1 (2024): 49-49.	2.5
12.	Ikhtiar Gul; M. Sayed, Abdul Naeem, Tooba Saeed, Unveiling cutting-edge progress in the fundamentals of MXene: synthesis strategies, energy and bio-environmental applications, <i>Coordination Chemistry Reviews</i> , 511 (2024) 215870	21.60
13.	Abdul Naeem, Tooba Saeed, Murtaza Sayed, Bashir Ahmad, Tahira Mahmood, Muhammad Farooq, Fouzia Parveen, Chitosan decorated zirconium metal-organic Framework for collaborative adsorption and photocatalytic degradation of methylene blue and methyl orange, <i>Process Safety and Environmental Protection</i> , 176 (2023)115-130,	7.926
14.	Tooba Saeed, Abdul Naeem, Bashir Ahmad, Shaista Afridi, Ihtisham Wali Khan, Fouzia Perveen, Israf Ud Din, Nazish Huma Khan, Synthesis and spectroscopic characteristics of chitosan composite of zinc-based metal-organic framework for rapid adsorption of organic pollutants from aqueous media, <i>Separation Science and Technology</i> , 58 (2023) 2270-2285	2.80
15.	Israf Ud Din, Abdulrahman I Alharthi, Mshari A Alotaibi, A Naeem, Tooba Saeed, Deciphering the role of CNT for methanol fuel synthesis by CO ₂ hydrogenation over Cu/CNT catalysts, <i>Chemical Engineering Research and Design</i> , 194 (2023)115-120 .	4.11
16.	Israf Ud Din, Mshari A Alotaibi, Abdulrahman I Alharthi, A Naeem, Gabriele Centi, Synthesis, characterization and activity of CeO ₂ supported Cu-Mg bimetallic catalysts for CO ₂ to methanol, <i>Chemical Engineering Research and Design</i> , 192 (2023)158-166	4.11
17.	Israf Ud Din, Mshari A Alotaibi, Abdulrahman I Alharthi, Matar N Al-Shalwi, Feras Alshehri, Green synthesis approach for preparing zeolite based Co-Cu bimetallic catalysts for low temperature CO ₂ hydrogenation to methanol, <i>Fuel</i> , 330 (2022) 125643	6.609
18.	Fouzia Perveen, Muhammad Farooq, Abdul Naeem, Muhammad Humayun, Tooba Saeed, Ihtisham Wali Khan, Ghazala Abid, Catalytic conversion of agricultural waste biomass into valued chemical using bifunctional heterogeneous catalyst: A sustainable approach, <i>Catalysis Communications</i> , 171 (2022) 106516	3.626
19.	Fouzia Perveen,* Muhammad Farooq,* Anita Ramli, Abdul Naeem, and Jehangeer Khan, Levulinic Acid Production from Waste Corncob Biomass Using an Environmentally Benign WO ₃ -Grafted ZnCo ₂ O ₄ @CeO ₂ Bifunctional Heterogeneous Catalyst, <i>ACS Omega</i> , 8, 1, (2023) 333–345 https://doi.org/10.1021/acsomega.2c04545	4.132
20.	N. Bibi, M.Sayed, F.Rehman, A. Naeem, T. Mahmood, S. Gul, Development of zerovalent iron and titania (Fe0/TiO2) composite for oxidative degradation of dichlorophene in aqueous solution: synergistic	5.190

	role of peroxymonosulfate (HSO_5^-), <i>Environmental Science and Pollution Research</i> , 29 (2022) 63041–63056.	
21.	Juma Sahar, Muhammad Farooq, Anita Ramli, Abdul Naeem, Noor Saeed Khattak, Zahid Ali Ghazi, Highly efficient heteropoly acid decorated $\text{SnO}_2@$ Co-ZIF nanocatalyst for sustainable biodiesel production from Nannorrhops ritchiana seeds oil, <i>Journal Renewable Energy</i> 198, (2022) 306-318	8.001
22.	Juma Sahar, Muhammad Farooq, Anita Ramli, Abdul Naeem, Noor Saeed Khattak, Biodiesel production from Mazari palm (Nannorrhops ritchiana) seeds oil using Tungstophosphoric acid decorated $\text{SnO}_2@$ Mn-ZIF bifunctional heterogeneous catalyst, <i>Applied Catalysis A: General</i> , 643 (2022) 118740	5.706
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24.	Muhammad Yaseen, Sidra Subhan, Fazle Subhan, Ata Ur Rahman, Abdul Naeem, Zahoor Ahmad, Zhangfa Tong, Hausmannite Mn_3O_4 functionalized graphene Oxide- NaClO system for oxidative desulfurization and denitrogenation of fuel oils, <i>Fuel</i> , 321 (2022) 124017	6.609
25.	Ihtisham Wali Khan, Abdul Naeem, Muhammad Farooq, Zahid Ali Ghazi, Tooba Saeed, Fouzia Perveen, Tabassum Malik, Biodiesel production by valorizing waste non-edible wild olive oil using heterogeneous base catalyst: Process optimization and cost estimation, <i>Fuel</i> , 320 (2022) 123828	6.609
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27.	Ihtisham Wali Khan ¹ · Abdul Naeem ¹ · Muhammad Farooq ¹ · Tahira Mahmood ¹ · Tooba Saeed ¹ · Fouzia Parveen ¹ · Tabassum Malik, Wild Olive Oil as a Novel and Sustainable Feedstock for Biodiesel Production: Overviewed Various Feedstock, Methodologies and Reaction, Mechanisms of Diferent Catalysts, <i>Catalysis Surveys from Asia</i> (2022) 26:144–160 https://doi.org/10.1007/s10563-022-09361-z	2.96
28.	Abdulrahman I.Alharthi ^a IsrafUd Din ^b Mshari, Alotaibi ^a Abdulaziz Bagabas ^b A.Naeem ^c AbdulmajeedAlkhailifa, Low temperature green methanol synthesis by CO_2 hydrogenation over Pd/SiO ₂ catalysts in slurry reactor, <i>Inorganic Chemistry Communications</i> , 142, 2022, 109688.	3.428
29.	A Khan, A Naeem, T Mahmood, N Muhammad, S Hussain, Fixed-bed column adsorption of methyl orange by poly (vinyl pyrrolidone)-functionalized manganese oxide, <i>Journal of Chemical Technology & Biotechnology</i> , 2022; 97: 2898–2903.	3.66
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	International Journal of Environmental Science and Technology 19 (2022), 1937-1944. https://doi.org/10.1007/s13762-021-03244-y	
32.	M Yaseen, W Ahmad, MU Farooq, M Shakir, A Naeem, Preparation of an rGO and iron oxide nanoparticle-incorporated polyvinyl acetate based membrane for the removal of Pb 2+ from anticorrosive paint industrial wastewater, Environmental Science: Water Research & Technology 8 (9), 1895-1909. DOI: https://doi.org/10.1039/D2EW00172A	4.92
33.	Tooba Saeed, Abdul Naeem, Israf Ud Din, Muhammad Farooq, Ihtisham Wali Khan, Muhammad Hamayun, Tabassum Malik, Response to comments on “Correction to the Thermodynamic calculation using the Langmuir isotherm model”, Journal of Hazardous Materials , 2022, 129015	14.224
34.	Li Xu , S.A. Shah , H. Khan, R. Sayyar , X. Shen, W. Yaseen, Z. Ali Ghazi, A. Naeem, C. Wang, Ni ₃ S ₂ nanostrips@FeNi-NiFe ₂ O ₄ nanoparticles embedded in N-doped carbon microsphere: An improved electrocatalyst for oxygen evolution reaction, Journal of Colloid and Interface Science , 617, 2022, 1-10, https://doi.org/10.1016/j.jcis.2022.02.129	9.965
35.	T Mahmood, U Noreen, R Ali, A Ullah, A Naeem, M Aslam, Adsorptive removal of Congo red from aqueous phase using graphene–tin oxide composite as a novel adsorbent, International Journal of Environmental Science and Technology , 2022, https://doi.org/10.1007/s13762-021-03867-1	3.519
36.	MGU Islam, MT Jan, M Farooq, A Naeem, IW Khan, HU Khattak Biodiesel production from wild olive oil using TPA decorated Cr-Al acid heterogeneous catalyst, Chemical Engineering Research and Design , 178, 2022, 540-549	4.119
37.	A. Khan, A. Naeem, B. Ahmad, Z. Ahmad, M. Farooq, T. Saeed. Mechanistic study on methyl orange and congo red adsorption onto polyvinyl pyrrolidone modified magnesium oxide. International Journal of Environmental Science and Technology 19, (2022), 2515- 25298, doi.org/10.1007/s13762-021-03308-	3.519
38.	T. Saeed, A Naeem, IU Din, M Farooq, IW Khan, M Hamayun, T Malik Synthesis of Chitosan Composite of Metal-Organic Framework for the Adsorption of Dyes; Kinetic and Thermodynamic Approach, Journal of Hazardous Materials , 427, 2022, 127902	14.224
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42.	Farida Khan ^a , Naeem A , Israf Uddin ^c T.Saeed ^b Mshari , Alotaibi, Abdulrahman, I.Alharthi ^b , AsadH abib, Tabassum Malik ^c Synthesis, characterization and adsorption studies of h-BN crystal for efficient removal of Cd ²⁺ from aqueous solution, Ceramics International . 47, 2021, 4749-4757	5.532
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44.	Abdul Naeem , Ihtisham Wali Khan, Muhammad Farooq, Tahira Mahmood, Israf Ud Din, Zahid Ali Ghazi, Tooba Saeed, Kinetic and optimization study of sustainable biodiesel production from waste cooking oil using novel heterogeneous solid base catalyst, Bioresource Technology , 328 (2021) 124831.	11.889
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63.	Shah. Luqman Ali, Malik, Tabassum, Siddiq, Mohammad, Naeem, Abdul , TiO ₂ nanotubes doped poly (vinylidene fluoride) polymer membranes (PVDF/TNT) for efficient photocatalytic degradation of brilliant green dye, Journal of Environmental Chemical Engineering , <i>7</i> (2019).	7.968
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